

AMENDMENTS TO THE CLAIMS

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

1. (Currently Amended) A cooling device for a fuel-recirculation circuit from the injection system to the tank of a motor vehicle, comprising a pipe designed to be traversed by the fuel and comprising a side wall, wherein said side wall has at least one internal projection extending longitudinally for at least a portion of said side wall and obtained by plastic deformation of said side wall and ~~in that~~wherein said cooling device does not comprise a radiating plate connected in a direct thermal exchange manner to said pipe, said side wall being entirely surrounded with a cooling current of air.

2. (Previously Presented) The cooling device according to Claim 1, characterized in that said pipe is coiled.

3. (Previously Presented) The cooling device according to Claim 2, characterized in that said coiled pipe comprises an alternating succession of elbows and rectilinear stretches.

4. (Previously Presented) The cooling device according to Claim 2, characterized in that it comprises a plurality of said projections.

5. (Previously Presented) The cooling device according to Claim 4, characterized in that said projections are made on said rectilinear stretches.

6. (Canceled)

7. (Previously Presented) The cooling device according to Claim 1, characterized in that said side wall is entirely surrounded with a cooling current of air.

8. (New) The cooling device according to Claim 1, characterized in that there are three parallel internal projections.

9. (New) The cooling device according to Claim 3, characterized in that the at least one internal projection extends longitudinally along the rectilinear stretches comprised between pairs of the elbows.